

Editors

Prof. M. Flytzani-Stephanopoulos
Department of Chemical and
Biological Engineering
Tufts University
4 Colby St. Medford, MA 02155
E-mail: mflytzan@tufts.edu

Dr. R.W. McCabe
National Science Foundation
CBET
4201 Wilson Boulevard
Arlington, VA, 22230, USA
E-mail: bobmccabe03@gmail.com

Prof. I.-S. Nam

Department of Chemical Engineering
Pohang Univ. of Science & Technology
Hyoja San 31 Nam-gu
Pohang, Republic of Korea
E-mail: isnam@postech.ac.kr

Prof. X. Verykios

Dept. of Chemical Engineering
University of Patras
GR 26504 Patras
Greece
E-mail: verykios@rea.chemeng.upatras.gr

Prof. Hiromi Yamashita

Division of Materials and Manufacturing
Science
Graduate School of Engineering Osaka
University
2-1 Yamada-oka, Suita Osaka 565-0871
Japan
E-mail: yamashita@mat.eng.osaka-u.ac.jp

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School of Chem. & Bio. Engineering
Seoul National University 1 Gwanak-ro,
Gwanak-gu Seoul, Republic of Korea
E-mail: ysung@snu.ac.kr

Prof. Hexing Li
Department of Chemistry
Shanghai Normal University
100 Guilin R Shanghai, China
E-mail: Hexing-li@shnu.edu.cn

Prof. Yongfa Zhu
Tsinghua University,
Beijing, China
Email: zhuyf@tsinghua.edu.cn

Dr. Adrian M.T Silva
Faculdade de Engenharia
da Universidade do Porto
Porto, Portugal
E-mail: adrian@fe.up.pt

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- Basic understanding of catalysts used in environmental pollution abatement, especially as applied to industrial processes
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- New catalytic routes and processes for the production of clean energy, such as in hydrogen generation via catalytic fuel processing; and new catalysts and electrocatalysts for fuel cells
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